

IN THE CLAIMS:

Please cancel claim 22 without prejudice or disclaimer, amend claim 12 and add new claim 23, as shown below in the detailed listing of all claims which are, or were, in this application:

Claims 1-11 (Canceled).

12. (Currently amended) A bioactive glass composition comprising SiO_2 , Na_2O , CaO , K_2O , MgO , P_2O_5 and B_2O_3 , wherein the amount of SiO_2 is 51-56 wt-% of the starting oxides, Na_2O is ~~[[7-9 wt-%]]~~ 6-9 wt-% of the starting oxides, CaO is 21-23 wt-% of the starting oxides, K_2O is 10-12 wt-% of the starting oxides, MgO is 1-4 wt-% of the starting oxides, P_2O_5 is 0.5-1.5 wt-% of the starting oxides, and B_2O_3 is 0-1 wt-% of the starting oxides, provided that the total amount of Na_2O and K_2O is 17-20 wt-% of the starting oxides.

13. (Previously presented) The bioactive glass composition of claim 12, wherein the amount of SiO_2 is 54-56 wt-% of the starting oxides.

14. (Previously presented) The bioactive glass composition of claim 12, further comprising Al_2O_3 up to 1 wt-% of the starting oxides provided that the total amount of B_2O_3 and Al_2O_3 is 0.5-2.5 wt-% of the starting oxides.

15. (Previously presented) The bioactive glass composition of claim 14, wherein a decrease of the amount of Na_2O and/or K_2O is compensated by the increase of the amount of Al_2O_3 and/or B_2O_3 .

16. (Previously presented) A method for coating a device comprising applying the bioactive glass composition of claim 12 to a device.

17. (Previously presented) An implantable device prepared from the bioactive glass composition of claim 12.

18. (Previously presented) A fiber prepared from the bioactive glass composition of claim 12.

19. (Previously presented) A sheet prepared from the bioactive glass composition of claim 12.

20. (Previously presented) A porous device prepared from the bioactive glass composition of claim 12 by injecting pressurized gas into the molten glass composition.

21. (Previously presented) A tissue engineering device prepared from the bioactive glass composition of claim 12.

22. (Cancelled)

23. (New) A method for manufacturing a repeatedly heat-treatable bioactive glass composition, comprising

- a) heating a mixture of starting materials to a temperature of 1350-1450 °C for a period of essentially three hours,
- b) allowing the obtained melt to cool down to ambient temperature for at least twelve hours,

- c) crushing the obtained solid glass into pieces,
- d) reheating the crushed glass material to a temperature of 1350-1450 °C for a period of essentially three hours, and
- e) molding the obtained bioactive glass composition into a desired shape and allowing it to cool down to ambient temperature,

wherein the obtained bioactive glass composition comprises SiO_2 , Na_2O , CaO , K_2O , MgO , P_2O_5 and B_2O_3 , wherein the amount of

SiO_2 is 51-56 wt-% of the starting oxides,

Na_2O is 6-9 wt-% of the starting oxides,

CaO is 21-23 wt-% of the starting oxides,

K_2O is 10-12 wt-% of the starting oxides,

MgO is 1-4 wt-% of the starting oxides,

P_2O_5 is 0.5-1.5 wt-% of the starting oxides, and

B_2O_3 is 0-1 wt-% of the starting oxides,

provided that the total amount of Na_2O and K_2O is 17-20 wt-% of the starting oxides.